**ACCEPTED CONSOLE OUTPUT**

/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea\_rt.jar=49649:/Applications/IntelliJ IDEA CE.app/Contents/bin" -Dfile.encoding=UTF-8 -classpath /Users/erikmacik/IdeaProjects/TuringMachine/out/production/TuringMachine Main

How many states does this turing machine have? Don't include start, accept, or reject state: 2

Other than blank, how many symbols does this turing machine accept?: 2

While in state 0, symbol 0 should change the state to: 1

While in state 0, symbol 1 should change the state to: 0

While in state 0, symbol 2 should change the state to: 0

While in state 1, symbol 0 should change the state to: 4

While in state 1, symbol 1 should change the state to: 2

While in state 1, symbol 2 should change the state to: 1

While in state 2, symbol 0 should change the state to: 3

While in state 2, symbol 1 should change the state to: 2

While in state 2, symbol 2 should change the state to: 1

While in state 1, symbol 0 should be replaced with symbol: 0

While in state 1, symbol 1 should be replaced with symbol: 1

While in state 1, symbol 2 should be replaced with symbol: 2

While in state 2, symbol 0 should be replaced with symbol: 0

While in state 2, symbol 1 should be replaced with symbol: 1

While in state 2, symbol 2 should be replaced with symbol: 2

While in state 0, symbol 0 should move the head ('l', 'r', or '\_'): r

While in state 0, symbol 1 should move the head ('l', 'r', or '\_'): \_

While in state 0, symbol 2 should move the head ('l', 'r', or '\_'): \_

While in state 1, symbol 0 should move the head ('l', 'r', or '\_'): \_

While in state 1, symbol 1 should move the head ('l', 'r', or '\_'): r

While in state 1, symbol 2 should move the head ('l', 'r', or '\_'): r

While in state 2, symbol 0 should move the head ('l', 'r', or '\_'): \_

While in state 2, symbol 1 should move the head ('l', 'r', or '\_'): r

While in state 2, symbol 2 should move the head ('l', 'r', or '\_'): r

Enter the contents of the tape (int only): 121212121

Current state: 0

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 2

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 2

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 2

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 2

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 2

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

ACCEPTED

Current state: 3

|\_|1|2|1|2|1|2|1|2|1|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

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Process finished with exit code 0

**REJECTED CONSOLE OUTPUT**

/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea\_rt.jar=49810:/Applications/IntelliJ IDEA CE.app/Contents/bin" -Dfile.encoding=UTF-8 -classpath /Users/erikmacik/IdeaProjects/TuringMachine/out/production/TuringMachine Main

How many states does this turing machine have? Don't include start, accept, or reject state: 2

Other than blank, how many symbols does this turing machine accept?: 2

While in state 0, symbol 0 should change the state to: 1

While in state 0, symbol 1 should change the state to: 0

While in state 0, symbol 2 should change the state to: 0

While in state 1, symbol 0 should change the state to: 4

While in state 1, symbol 1 should change the state to: 2

While in state 1, symbol 2 should change the state to: 1

While in state 2, symbol 0 should change the state to: 3

While in state 2, symbol 1 should change the state to: 2

While in state 2, symbol 2 should change the state to: 1

While in state 1, symbol 0 should be replaced with symbol: 0

While in state 1, symbol 1 should be replaced with symbol: 1

While in state 1, symbol 2 should be replaced with symbol: 2

While in state 2, symbol 0 should be replaced with symbol: 0

While in state 2, symbol 1 should be replaced with symbol: 1

While in state 2, symbol 2 should be replaced with symbol: 2

While in state 0, symbol 0 should move the head ('l', 'r', or '\_'): r

While in state 0, symbol 1 should move the head ('l', 'r', or '\_'): \_

While in state 0, symbol 2 should move the head ('l', 'r', or '\_'): \_

While in state 1, symbol 0 should move the head ('l', 'r', or '\_'): \_

While in state 1, symbol 1 should move the head ('l', 'r', or '\_'): r

While in state 1, symbol 2 should move the head ('l', 'r', or '\_'): r

While in state 2, symbol 0 should move the head ('l', 'r', or '\_'): \_

While in state 2, symbol 1 should move the head ('l', 'r', or '\_'): r

While in state 2, symbol 2 should move the head ('l', 'r', or '\_'): r

Enter the contents of the tape (int only): 12122

Current state: 0

|\_|1|2|1|2|2|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|2|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 2

|\_|1|2|1|2|2|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|2|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 2

|\_|1|2|1|2|2|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|2|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

Current state: 1

|\_|1|2|1|2|2|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

^

REJECTED

Current state: 4

|\_|1|2|1|2|2|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|\_|

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Process finished with exit code 0